



World Health Organization – Regional Office for Eastern Mediterranean
AFP SURVEILLANCE
Week 47 ending 27 Nov 2016

28-Nov-16
Number 947

Table 1: Acute Flaccid Paralysis (AFP) cases by week of onset

Country	Total AFP 2014	Total AFP 2015	Total AFP to date, 2016	2016												
				W 36 11 Sep 16	W 37 18 Sep 16	W 38 25 Sep 16	W 39 02 Oct 16	W 40 09 Oct 16	W 41 16 Oct 16	W 42 23 Oct 16	W 43 30 Oct 16	W 44 06 Nov 16	W 45 13 Nov 16	W 46 20 Nov 16	W 47 27 Nov 16	
Afghanistan	2421	2738	2563	27	49	46	65	48	48	55	49	56	60	19	0	
Bahrain	16	19	13	0	0	0	0	0	0	0	0	0	0	1	0	
Djibouti	3	3	3	0	0	0	0	0	0	0	0	0	0	0	0	
Egypt	1000	1046	935	7	21	31	19	14	31	21	21	41	16	8	0	
Iran	753	780	682	12	20	13	9	12	20	14	14	14	12	3	0	
Iraq	590	520	526	6	2	14	12	8	14	8	16	13	9	5	0	
Jordan ****	62	90	95	2	0	0	2	2	4	2	2	2	3	2	1	
Kuwait	32	32	35	0	0	1	0	1	1	1	0	0	0	3	0	
Lebanon ****	50	113	99	1	1	2	2	1	4	7	1	2	0	3	0	
Libya	43	54	53	0	1	2	1	5	1	0	1	2	0	0	0	
Morocco	103	79	73	3	3	4	1	1	4	2	1	1	1	0	0	
Oman	34	39	34	1	2	2	0	0	0	1	0	0	0	0	0	
Pakistan	5370	5814	6347	124	157	187	154	127	156	168	158	115	87	31	0	
Palestine ****	21	38	44	1	2	1	0	1	0	0	3	0	0	0	0	
Qatar	7	11	7	0	0	1	1	0	0	0	0	0	0	0	0	
Saudi Arabia	227	254	194	2	2	4	1	0	2	9	3	1	0	0	0	
Somalia	420	281	276	5	5	7	6	6	6	11	7	2	4	2	0	
Sudan	442	436	471	7	9	8	12	13	10	8	7	10	10	2	0	
Syria ****	306	235	256	10	5	3	7	3	5	2	3	8	3	2	0	
Tunisia	44	64	78	1	0	3	4	2	1	2	2	2	1	1	0	
U.A.E	25	31	33	0	0	0	1	0	0	1	0	3	1	1	0	
Yemen	578	537	635	9	7	21	11	14	9	16	11	4	5	4	0	
Total EMR	12547	13214	13452	218	286	350	308	258	316	328	299	276	212	87	1	

No data = No report received

Table 2: Confirmed polio cases by month of onset

Country	Total year 2014	Total year 2015	27/11		Confirmed polio cases by month of onset											
			2015	2016	December 2015	January 2016	February 2016	Mar 2016	April 2016	May 2016	June 2016	July 2016	August 2016	September 2016	October 2016	November 2016
Afghanistan	28	20	19	12	1	1	2	1	1	1	0	0	2	2	2	
Bahrain	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Djibouti	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Egypt	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Iran	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Iraq	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Jordan ****	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Kuwait	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Lebanon ****	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Libya	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Morocco	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Oman	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Pakistan	306	54	51	18	3	2	4	2	3		2	1		2	1	1
Palestine ****	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Qatar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Saudi Arabia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Somalia	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sudan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Syria ****	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Tunisia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.A.E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Yemen	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total EMR	342	74	70	30	4	3	6	3	4	1	2	1	2	4	3	1

**** UNRWA cases are included with those of country of residence



Table 3: Investigation of AFP cases with paralysis onset in 2015 & 2016

COUNTRY	2015												2016												Latest line List Date						
	AFP									Specimen			Wild cases ****			AFP										Specimen			Wild cases ****		
	Total AFP cases onset 2015	Case classification					Non polio AFP rate **	AFP cases pending classification > 90 days from onset of paralysis	AFP cases pending classification and lab > 90 days from onset of paralysis	% with *** adequate specimens	Wild P1 Poliovirus	Wild P3 Poliovirus	Total AFP cases onset 2016	Case classification					Annualized Non polio AFP rate **	AFP cases pending classification > 90 days from onset of paralysis	AFP cases pending classification and lab > 90 days from onset of paralysis	% with *** adequate specimens	Wild P1 Poliovirus	Wild P3 Poliovirus							
		Total Confirmed Polio Cases *	Polio Compatible	Pending Classification	Discarded (non polio AFP)	VDPV								Total Confirmed Polio Cases *	Polio Compatible	Pending Classification	Discarded (non polio AFP)	VDPV													
Afghanistan	2738	20	3	0	2715	0	13.8	0	0	93.0	20	0	2563	12	0	0	169	2381	1	14.2	10	0	92.5	12	0	24/11/2016					
Bahrain	19	0	0	0	19	0	7.0	0	0	94.7	0	0	13	0	0	1	12	0	5.3	0	0	100.0	0	0	26/11/2016						
Djibouti	3	0	0	0	3	0	1.0	0	0	66.7	0	0	3	0	0	2	1	0	1.1	2	0	33.3	0	0	10/09/2016						
Egypt	1046	0	0	0	1045	1	3.0	0	0	94.2	0	0	935	0	0	115	820	0	2.7	3	0	91.3	0	0	26/11/2016						
Iran	780	0	0	0	779	1	4.3	0	0	96.9	0	0	682	0	0	16	665	0	4.0	0	0	95.0	0	0	26/11/2016						
Iraq	520	0	0	0	518	2	3.6	0	0	81.9	0	0	526	0	0	58	467	1	4.0	15	1	81.2	0	0	26/11/2016						
Jordan	90	0	0	0	90	0	3.2	0	0	96.7	0	0	95	0	0	26	69	0	3.7	3	0	98.9	0	0	24/11/2016						
Kuwait	32	0	0	0	32	0	3.7	0	0	96.9	0	0	35	0	0	5	30	0	4.4	2	0	85.7	0	0	24/11/2016						
Lebanon	113	0	0	0	113	0	5.2	0	0	84.1	0	0	99	0	0	21	78	0	4.9	9	0	83.8	0	0	26/11/2016						
Libya	54	0	0	0	54	0	2.6	0	0	94.4	0	0	53	0	0	4	49	0	2.8	1	0	96.2	0	0	19/11/2016						
Morocco	79	0	0	1	78	0	0.8	1	0	57.0	0	0	73	0	0	24	49	0	0.8	15	1	60.3	0	0	25/10/2016						
Oman	39	0	0	0	39	0	4.5	0	0	97.4	0	0	34	0	0	1	33	0	4.3	0	0	82.4	0	0	21/11/2016						
Pakistan	5814	54	10	1	5745	4	7.4	1	0	87.2	54	0	6347	18	1	346	5981	1	8.9	74	7	89.0	18	0	26/11/2016						
Palestine	38	0	0	0	38	0	2.2	0	0	92.1	0	0	44	0	0	6	38	0	2.6	0	0	97.7	0	0	24/11/2016						
Qatar	11	0	0	0	11	0	3.7	0	0	100.0	0	0	7	0	0	3	4	0	2.6	1	0	100.0	0	0	20/11/2016						
Saudi Arabia	254	0	0	0	254	0	2.7	0	0	98.0	0	0	194	0	0	30	164	0	2.2	6	6	97.9	0	0	24/11/2016						
Somalia	281	0	1	0	280	0	4.9	0	0	96.1	0	0	276	0	0	11	264	1	5.3	0	0	99.3	0	0	27/11/2016						
Sudan	436	0	0	0	436	0	2.6	0	0	97.2	0	0	471	0	0	16	455	0	3.1	0	0	97.2	0	0	27/11/2016						
Syria	235	0	0	0	235	0	3.0	0	0	90.2	0	0	256	0	0	18	238	0	3.6	0	0	87.9	0	0	25/11/2016						
Tunisia	64	0	0	0	64	0	2.4	0	0	85.9	0	0	78	0	0	9	69	0	3.2	0	0	76.9	0	0	25/11/2016						
U.A.E	31	0	0	0	31	0	3.0	0	0	90.3	0	0	33	0	0	5	28	0	3.6	0	0	100.0	0	0	24/11/2016						
Yemen	537	0	0	0	537	0	4.1	0	0	90.7	0	0	635	0	0	91	543	1	5.4	1	1	91.2	0	0	26/11/2016						
EMR	13214	74	14	2	13116	8	5.4	2	0	90.2	74	0	13452	30	1	977	12438	5	6.0	142	16	90.4	30	0							
2014	12546	342	59	0	12116	30	4.9	0	0	90.7	342	0																			

* Confirmed polio cases refer to wild isolation from AFP cases or from contacts of negative index AFP cases

** Non-polio AFP per 100,000 children <15 years

*** Adequate here refers to two stool specimens collected at least 24 hours apart, within 14 days of paralysis onset

**** AFP cases co infected with P1 and P3 are counted separately as wild isolates



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Table 4 (a): Last wild contacts in EMRO, 2016

Year	Country	Count of wild contacts	Date of Most Recent stool collection
2016	Pakistan	4	10/8/2016
	Afghanistan	4	10/7/2016
2016 Total		8	10/8/2016

Table 4 (b): Number and distribution of negative index AFP identified as wild positive by contact, 2015-2016

Year	COUNTRY	PROVINCE	DISTRICT	Count	First case	Last case
2015	AFG	FARAH	GULESTAN	1	4/23/2015	4/23/2015
			BAKWA	1	4/21/2015	4/21/2015
		KANDAHAR	SHAHWALIKOT	1	12/20/2015	12/20/2015
	AFG Total			3	4/21/2015	12/20/2015
	PAK	KHYBER PAKHTOON	PESHAWAR	1	6/8/2015	6/8/2015
			TANK	1	1/25/2015	1/25/2015
PAK Total			2	1/25/2015	6/8/2015	
2015 Total				5	1/25/2015	12/20/2015
2016	AFG	KUNAR	SHIGAL WA SHEL TAN	1	2/26/2016	2/26/2016
		PAKTIKA	BERMEL	1	9/1/2016	9/1/2016
		HILMAND	NAWZAD	1	1/23/2016	1/23/2016
	AFG Total			3	1/23/2016	9/1/2016
	PAK	KHYBER PAKHTOON	KOHISTAN	1	9/3/2016	9/3/2016
PAK Total			1	9/3/2016	9/3/2016	
2016 Total				4	1/23/2016	9/3/2016



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Table 5: Laboratory investigation of AFP cases with paralysis onset in 2016

Country	Polio laboratories Sequencing performed by CDC and RIVM laboratories	AFP cases with specimens	Preliminary virus isolation results of AFP cases						Poliovirus intratypic differentiation results #											Indicators				Latest report Date		
			Referred for ITD		NPEV only	Negative	Pending		Type 1			Type 2			Type 3			Discordant pending sequence	NPEV by PCR	Non-EV	Pending ITD	% specimens positive for NPEV*	% AFP cases with culture results within 14 days		% AFP cases with ITD results within 7 days	% AFP cases with ITD results within 45 days of onset**
			L20B+	L20B+/NPEV			received < / = 14 days	received > 14 days ago	Wild	Sabin	VDPV	Wild	Sabin	VDPV	Wild	Sabin	VDPV									
Afghanistan	RRL Pakistan	2524	193	28	530	1671	102		9	117			19	1		137			3			19%	96%	97%	97%	25/11/2016
Bahrain	PNL Oman	12	1			11														1		0%	100%		82%	28/11/2016
Djibouti	NPL Kenya	1			1																100%			100%	10/09/2016	
Egypt***	RRL Egypt	933	27	1	144	672	33	55		9			7			15		1	3	2		13%	99%	100%	99%	24/11/2016
Iran	NPL Iran	691	9		14	648	18	2		5			1			5		1				2%	100%	100%	99%	26/11/2016
Iraq	PNLIraq, RRL Egypt	518	17		47	428	22	5		6			9	1		8						12%	100%	100%	88%	24/11/2016
Jordan	PNL Jordan, RRL Egypt	95	4		9	78	4			6						3						10%	100%	100%	100%	24/11/2016
Kuwait	RRL Kuwait	42	1		1	40														1		1%	76%		90%	10/11/2016
Lebanon	PNL Jordan, RRL Egypt	98	3		8	85		3														7%	100%		100%	24/11/2016
Libya	RRL Tunisia	49	2		2	43		2		2												4%	100%	100%	98%	11/11/2016
Morocco	PNL Morocco, RRL Tunisia	67	2		4	58	2	1												2		10%	95%		92%	27/11/2016
Oman	NPL Oman	36			9	26		1														18%	100%		100%	28/11/2016
Pakistan	RRL Pakistan	6383	349	35	1422	4314	260	1	17	192			33	1		236			8			20%	98%	98%	97%	25/11/2016
Palestine & UNRWA		44			4	38		2														10%	29%		97%	27/11/2016
Qatar	NPL Oman	7			1	6																14%	100%		100%	28/11/2016
Saudi Arabia	PNL Saudi Arabia, NPL Oman	188			6	174		8								1						3%	99%	100%	88%	30/10/2015
Somalia	NPL Kenya	262	2	12	36	188		24		9			10	1		11						20%	11%		99%	27/11/2016
Sudan	PNL Sudan, RRL Egypt	469	2		67	386	12	2		1						2						14%	87%	100%	67%	27/11/2016
Syria	PNL Syria, RRL Egypt	263	6		14	238		5		2			1			4						4%	100%	100%	100%	03/11/2016
Tunisia	RRL Tunisia	74			3	63		8														5%	100%		98%	11/11/2016
U.A.E	NPL Oman	27			2	25																6%	100%		96%	28/11/2016
Yemen	RRL Egypt	1065	24	5	177	601		258		6			3	1		13			2	1		20%	40%	100%	48%	24/11/2016
Total EMR 2016		13848	642	81	2501	9793	453	377	26	355			83	5		435		2	16	3	4	17%	92%	98%	94%	
Total EMR 2015		12989	743	97	2319	9815		12	69	362			188	8		415		4	31	10	2	16%	91%	99%	93%	

* Specimens from all sources including non-AFP cases, excluding environmental samples

** This indicator reflects surveillance and laboratory activities



Table 6: Environmental isolate by year and type

Country	Status	2010	2011	2012	2013	2014	2015	2016
AFG	NEGATIVE				9	78	129	141
	PENDING							7
	WILD					17	20	
AFG Total					9	95	149	148
EGY	NEGATIVE	183	178	196	304	410	412	427
	PENDING							42
	WILD			2				
	VDPV1			1		1		
	VDPV2			7	3	2	3	1
EGY Total		183	178	206	307	413	415	470
JOR	NEGATIVE							1
	PENDING							1
JOR Total								2
LEB	NEGATIVE							1
	PENDING							1
LEB Total								2
PAK	NEGATIVE	77	68	151	257	237	347	397
	PENDING							27
	WILD	79	136	88	63	125	79	47
	WILD & VDPV2				2	6	5	1
	VDPV2					4	8	3
PAK Total		156	204	239	322	372	439	475
EMR	NEGATIVE	260	246	347	570	725	888	966
	PENDING							77
	WILD	79	136	90	63	142	99	47
	WILD & VDPV2				2	6	5	
	VDPV1			1		1		
	VDPV2			7	3	6	11	4
EMR Total		339	382	445	638	880	1003	1097

Table 7: Environmental Wild/VDPV isolates by site

Year	Country	Status	Province	District	Count	First date	Last date	
2015	AFG	WILD1	HILMAND	LASHKARGAH	7	1/25/2015	11/25/2015	
				NAHR-E-SARAJ	3	1/24/2015	9/19/2015	
				KABUL	1	12/27/2015	12/27/2015	
				KANDAHAR	3	1/4/2015	8/26/2015	
				KUNAR	1	10/25/2015	10/25/2015	
				NANGARHAR	1	10/25/2015	10/25/2015	
	AFG Total				20	1/4/2015	12/27/2015	
	EGY	VDPV2	CAIRO	EL SAFF	1	6/16/2015	6/16/2015	
				GIZA	1	2/4/2015	2/4/2015	
				HURGADA	1	5/26/2015	5/26/2015	
	EGY Total				3	2/4/2015	6/16/2015	
	PAK	WILD1	BALOCHISTAN	KABDULLAH	3	1/15/2015	6/1/2015	
				QUETTA	12	1/12/2015	10/28/2015	
				ISLAMABAD	2	1/12/2015	8/17/2015	
				KHYBER PAKHTUNKHM	DIKHAN	3	3/4/2015	8/4/2015
					PESHAWAR	11	1/3/2015	12/11/2015
				PUNJAB	LAHORE	4	1/12/2015	10/12/2015
					MULTAN	4	4/8/2015	8/31/2015
				SINDH	RAWALPINDI	5	3/10/2015	12/14/2015
					HYDERABAD	2	2/3/2015	12/3/2015
JACOBABAD					5	1/8/2015	11/4/2015	
KHIGADAP					16	1/6/2015	12/22/2015	
KHIGIQBAL					6	1/13/2015	12/14/2015	
SUKKUR					6	1/6/2015	9/11/2015	
WILD1 & VDPV				BALOCHISTAN	3	3/28/2015	12/12/2015	
	KHYBER PAKHTUNKHM	1	2/26/2015	2/26/2015				
	SINDH	1	1/22/2015	1/22/2015				
	PUNJAB	1	4/13/2015	4/13/2015				
VDPV2	SINDH	KHIGADAP	5	1/14/2015	3/18/2015			
		KHIGIQBAL	2	6/8/2015	7/7/2015			
PAK Total				92	1/3/2015	12/22/2015		
2015 Total				115	1/3/2015	12/27/2015		
2016	EGY	VDPV2	SOUTH SINAI	AL-TUR	1	3/15/2016	3/15/2016	
				EGY Total	1	3/15/2016	3/15/2016	
	PAK	WILD1	BALOCHISTAN	KABDULLAH	4	1/15/2016	11/1/2016	
				PISHIN	4	8/2/2016	9/16/2016	
				QUETTA	9	2/12/2016	11/1/2016	
				KHYBER PAKHTUNKHM	DIKHAN	1	7/16/2016	7/16/2016
					PESHAWAR	7	1/11/2016	10/10/2016
				PUNJAB	DERA GHAZI KHA	1	5/12/2016	5/12/2016
					FAISALABAD	2	2/3/2016	7/2/2016
					LAHORE	3	8/5/2016	10/18/2016
					RAWALPINDI	2	4/14/2016	8/16/2016
				SINDH	HYDERABAD	1	1/5/2016	1/5/2016
					JACOBABAD	3	2/4/2016	8/16/2016
					KHIGADAP	5	1/27/2016	7/14/2016
KHIGIQBAL	2	1/18/2016	3/15/2016					
SUKKUR	3	1/12/2016	3/19/2016					
WILD1+VDPV2	BALOCHISTAN	1	10/20/2016		10/20/2016			
VDPV2	BALOCHISTAN	QUETTA	2	6/20/2016	9/16/2016			
		SINDH	1	7/11/2016	7/11/2016			
PAK Total				51	1/5/2016	11/1/2016		
2016 Total				52	1/5/2016	11/1/2016		



Figure 1: Non-Polio AFP Rate and Wild Polio Virus in EMR

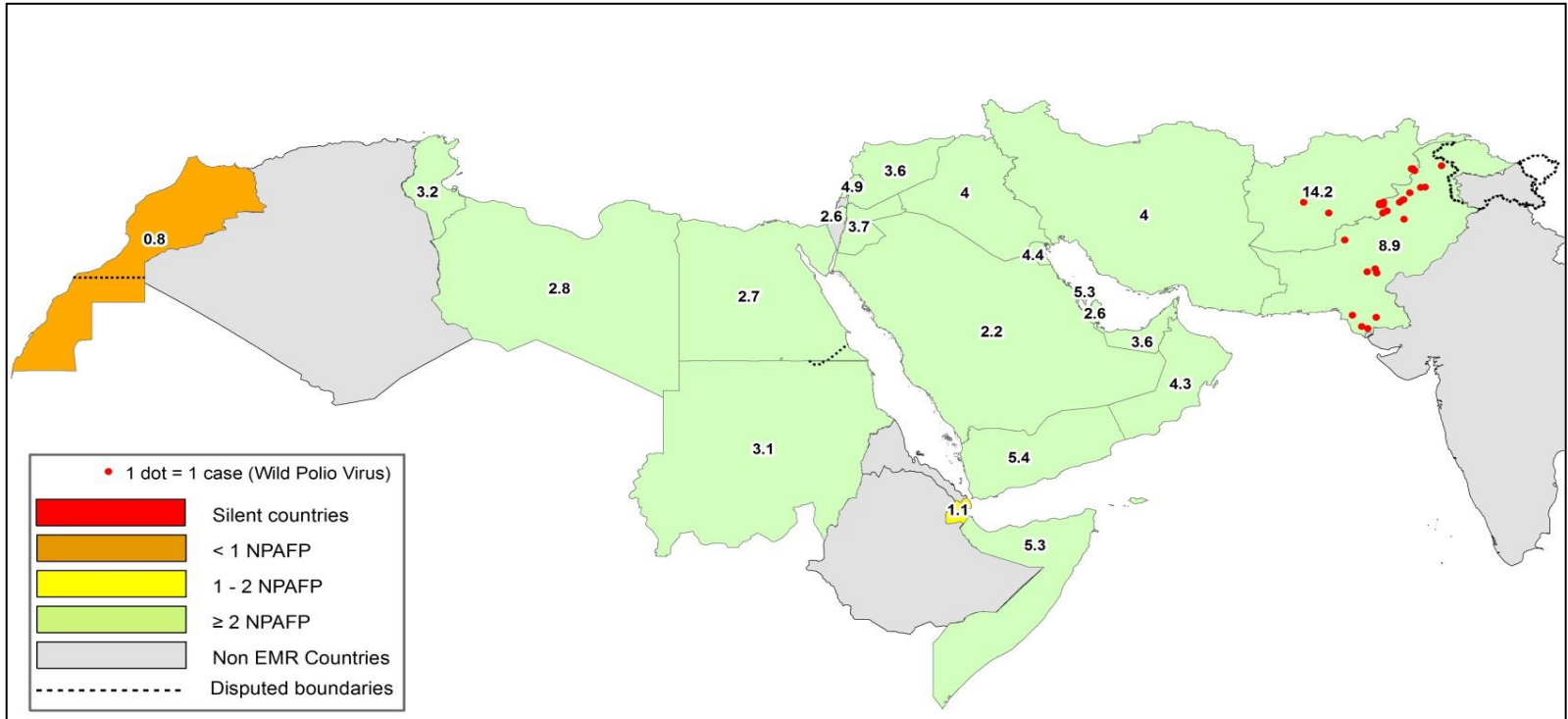


Figure 2: Percent of AFP cases with adequate samples & Compatible Cases in EMR

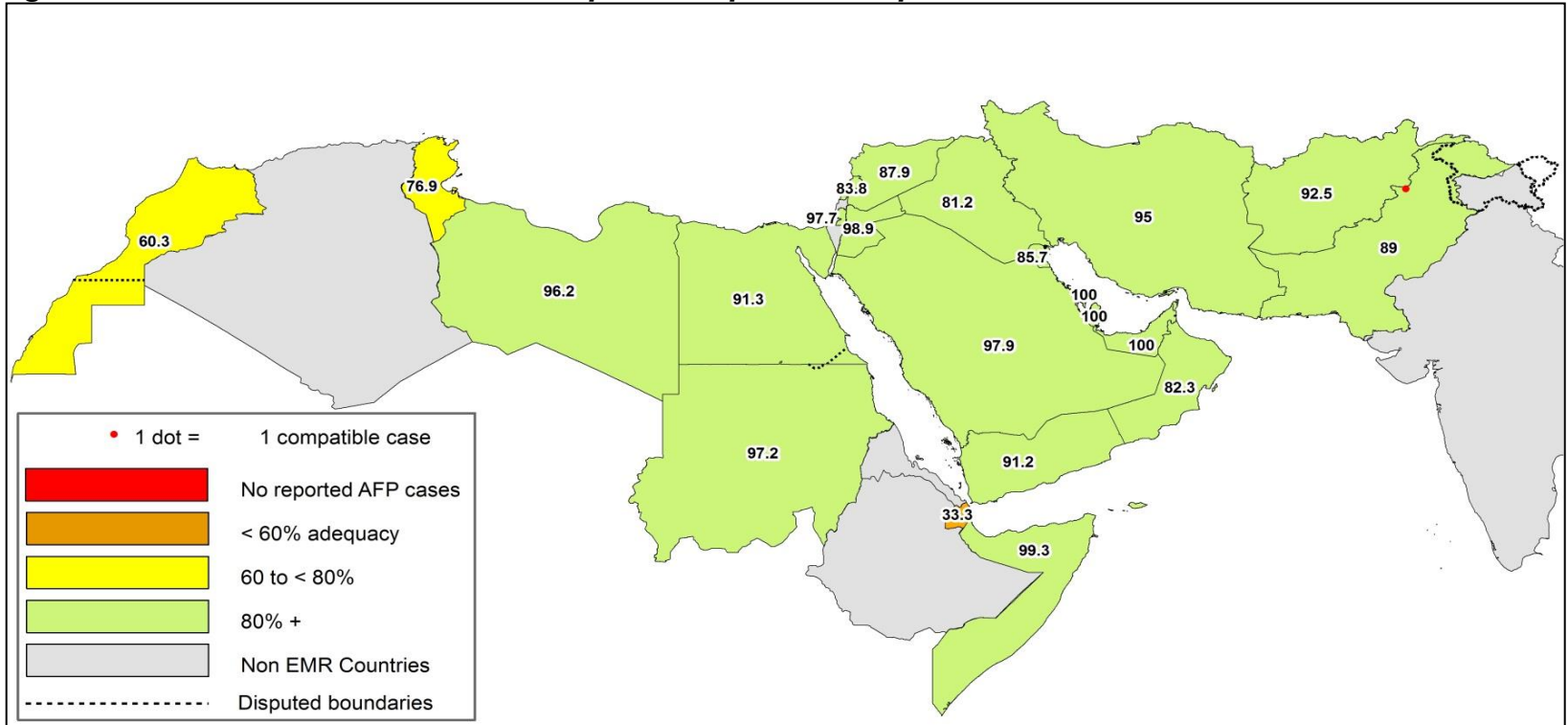


Table 8: Wild Polio Cases by country and date of onset of paralysis in EMR 2015-2016

Year	COUNTRY	Count	First Case	Last Case
2015	PAK	54	1/3/2015	12/31/2015
	AFG	20	1/21/2015	12/20/2015
2015 Total		74	1/3/2015	12/31/2015
2016	PAK	18	1/17/2016	11/3/2016
	AFG	12	1/23/2016	10/12/2016
2016 Total		30	1/17/2016	11/3/2016

Last reported wild Polio P3 from Pakistan with date of onset 18/04/2012



Figure 3: Non Polio AFP rate by district, AFG-PAK 2016

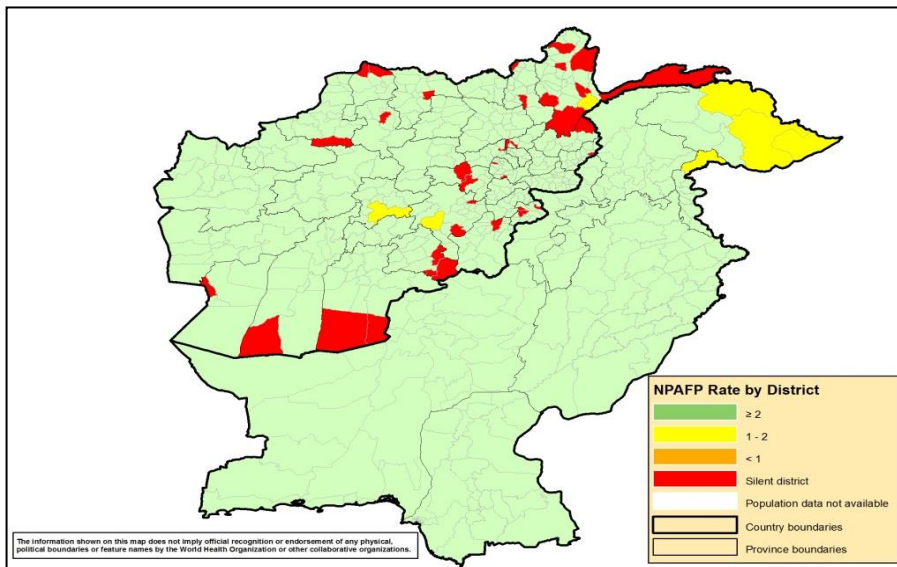


Figure 4: Percent of AFP cases with adequate samples, AFG-PAK 2016

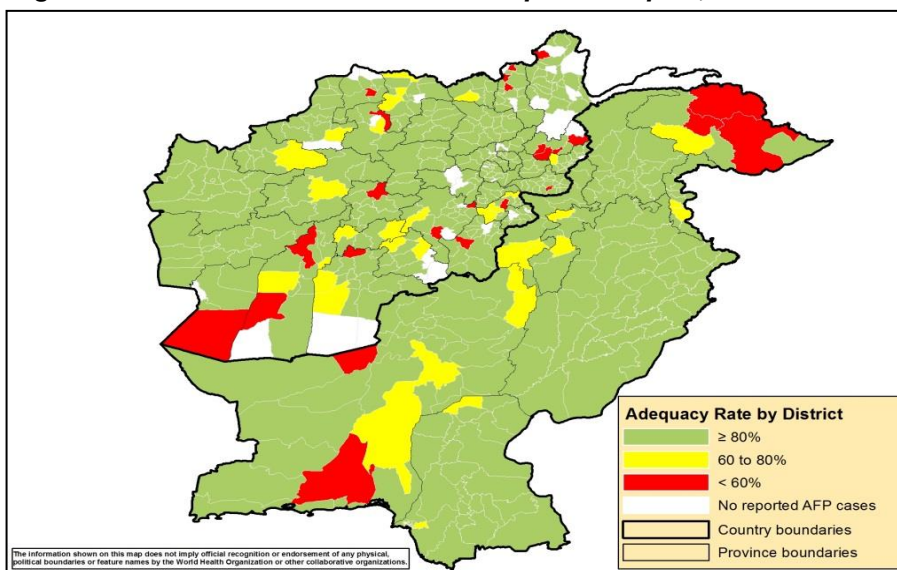


Figure 5: Wild Polio Virus cases by type & district in Afghansitan and Pakistan

Figure 5 (a) 2015

Figure 5 (b) 2016 up to 27 November

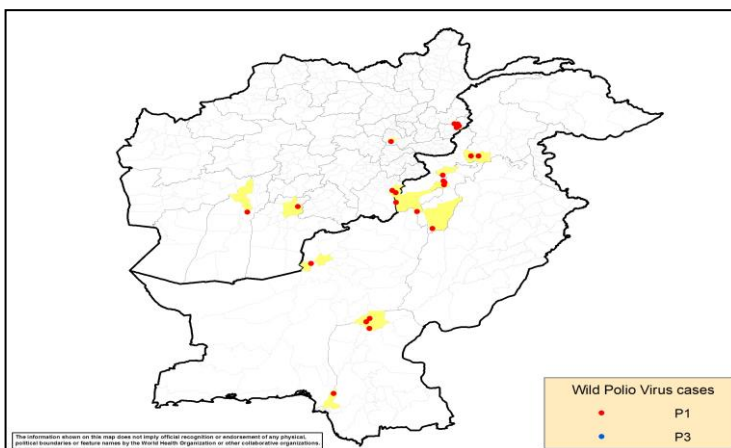
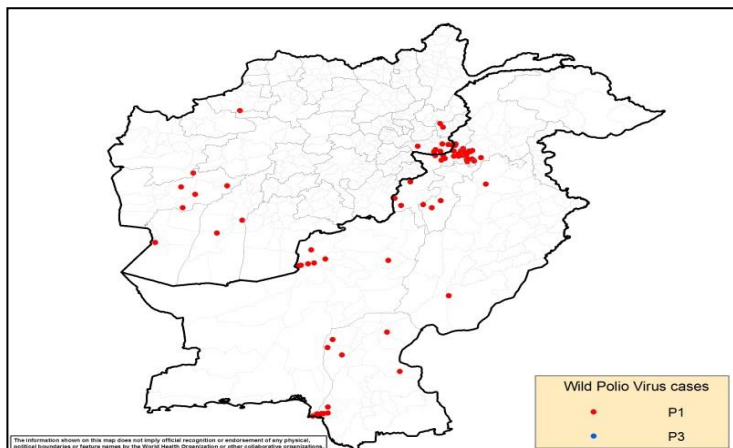




Table 9: Wild Polio Cases by district and date of paralysis onset, Afghansitan 2015-2016

ONSETYR	PROVINCE	DISTRICT	Count	First case	Last case
2015	KANDAHAR	SHAHWALIKOT	1	12/20/2015	12/20/2015
		KUNAR	1	11/19/2015	11/19/2015
	KUNAR	CHAPADARA	1	11/3/2015	11/3/2015
		DARA-E-PECH	1	11/3/2015	11/3/2015
	NANGARHAR	LALPUR	1	10/27/2015	10/27/2015
		MUHMAND DARA	1	10/14/2015	10/14/2015
		SHERZAD	1	9/6/2015	9/6/2015
		BATIKOT	1	9/4/2015	9/4/2015
		ACHIN	4	7/14/2015	9/1/2015
		FARYAB	QAYSAR	1	10/22/2015
	HILMAND	NAHR-E-SARAJ	1	10/20/2015	10/20/2015
		REG	1	1/21/2015	1/21/2015
	NIMROZ	ZARANJ	1	8/7/2015	8/7/2015
	HIRAT	SHINDAND	1	6/27/2015	6/27/2015
	FARAH	BALABULUK	1	6/7/2015	6/7/2015
GULESTAN		2	4/23/2015	5/5/2015	
BAKWA		1	4/21/2015	4/21/2015	
2015 Total			20	1/21/2015	12/20/2015
2016	PAKTIKA	BERMEL	6	8/2/2016	10/12/2016
	KUNAR	SHIGAL WA SHELTON	4	2/1/2016	5/29/2016
	KANDAHAR	SHAHWALIKOT	1	4/4/2016	4/4/2016
	HILMAND	NAWZAD	1	1/23/2016	1/23/2016
2016 Total			12	1/23/2016	10/12/2016

Table 10: Wild Polio Cases by district and date of paralysis onset, Paksitan 2015-2016

ONSETYR	PROVINCE	DISTRICT	Count	First case	Last case
2015	KHYBER PAKHTOON	PESHAWAR	12	1/17/2015	12/31/2015
		CHARSADA	1	4/20/2015	4/20/2015
		TANK	2	1/3/2015	1/25/2015
		LAKKIMRWT	1	1/7/2015	1/7/2015
		NOWSHERA	1	1/5/2015	1/5/2015
	PUNJAB	RYKHAN	1	12/2/2015	12/2/2015
		CHAKWAL	1	9/11/2015	9/11/2015
	SINDH	KHIBALDIA	2	11/11/2015	11/21/2015
		KHIGIQBAL	1	11/18/2015	11/18/2015
		KHAIRPUR	1	11/2/2015	11/2/2015
		KHIGADAP	2	10/10/2015	11/2/2015
		KHIKAMARI	1	11/1/2015	11/1/2015
		KHIGULBERG	1	9/14/2015	9/14/2015
		DADU	2	2/10/2015	2/19/2015
		SUKKUR	1	2/13/2015	2/13/2015
		KAMBAR	1	1/4/2015	1/4/2015
	BALOCHISTAN	QUETTA	5	2/20/2015	11/20/2015
		LORALAI	1	2/9/2015	2/9/2015
		KABDULAH	1	2/3/2015	2/3/2015
	FATA	KHYBER	11	1/5/2015	11/14/2015
		FR PESHAWAR	2	9/14/2015	10/22/2015
		WAZIR-S	2	1/7/2015	5/24/2015
		WAZIR-N	1	5/6/2015	5/6/2015
2015 Total			54	1/3/2015	12/31/2015
2016	SINDH	SUJAWAL	2	9/3/2016	11/3/2016
		BADIN	1	10/21/2016	10/21/2016
		SHIKARPUR	2	3/5/2016	4/12/2016
		JACOBABAD	1	2/10/2016	2/10/2016
		KHIGADAP	1	1/17/2016	1/17/2016
	KHYBER PAKHTOON	KOHISTAN	1	9/3/2016	9/3/2016
		DIKHAN	1	6/6/2016	6/6/2016
		BANNU	3	3/22/2016	4/26/2016
		PESHAWAR	1	2/12/2016	2/12/2016
		HANGU	1	2/9/2016	2/9/2016
		NOWSHERA	1	1/22/2016	1/22/2016
FATA	WAZIR-S	2	6/18/2016	7/27/2016	
BALOCHISTAN	QUETTA	1	2/1/2016	2/1/2016	
2016 Total			18	1/17/2016	11/3/2016



Table 11: Circulating VDPV cases and date of paralysis onset in EMR countries by districts 2015-2016

Year	COUNTRY	PROVINCE	DISTRICT	cVDPV2		
				Count	First Case	Last Case
2015	PAK	FATA	KHYBER	1	2/9/2015	2/9/2015
		KHYBER PAKHTOON		1	2/5/2015	2/5/2015
		PAK Total		2	2/5/2015	2/9/2015
2015 Total				2	2/5/2015	2/9/2015

Table 12: VDPV2 and Sabin Like 2 isolates, EMR countries 2016

Country	Source	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec	
		VDPV2	SL2	VDPV2	SL2	VDPV2	SL2	VDPV2	SL2	VDPV2	SL2	VDPV2	SL2	VDPV2	SL2	VDPV2	SL2	VDPV2	SL2	VDPV2	SL2	VDPV2	SL2	VDPV2	SL2
AFG	AFP		1		2		11		3		1							1	1						
	Contact		1				6		2		1														
	ENV		3		2		11																		
BAH	AFP																								
	Contact																								
	ENV																								
DJI	AFP																								
	Contact																								
	ENV																								
EGY	AFP		1		4		1				1														
	Contact				3																				
	ENV		9		19		1		20		5		8												
IRA	AFP										1														
	Contact																								
	ENV																								
IRQ	AFP		2	1	1		5		1																
	Contact		3		1		7		9																
	ENV																								
JOR	AFP																								
	Contact																								
	ENV																								
KWT	AFP																								
	Contact																								
	ENV																								
LEB	AFP																								
	Contact																								
	ENV																								
LIB	AFP																								
	Contact																								
	ENV																								
MOR	AFP																								
	Contact																								
	ENV																								
OMA	AFP																								
	Contact				1																				
	ENV																								
PAK	AFP		7		7		16				3								1						
	Contact				1		7		5		1														
	ENV		7		32		27		27		9		1	3	1	1			1	1	1	2			
PAL	AFP																								
	Contact																								
	ENV																								
QAT	AFP																								
	Contact																								
	ENV																								
SAA	AFP																								
	Contact																								
	ENV																								
SUD	AFP																								
	Contact																								
	ENV																								
SOM	AFP				1		6		1				1		1						1**				
	Contact																						1**		
	ENV																								
SYR	AFP									1															
	Contact																								
	ENV																								
TUN	AFP																								
	Contact																								
	ENV																								
UAE	AFP																								
	Contact																								
	ENV																								
YEM	AFP		1						1		1			1*											
	Contact				1				2					1*											
	ENV																								
EMR	AFP		12	1	15		39		6		8		1		1			2	1	1					
	Contact		4		7		20		18		2			1									1		
	ENV		19		53	1	58		32		17	1	3	1	1			1	1	1	2				

VDPV2

Two VDPV2 have been isolated from immune-compromised children from EGY not included in this table

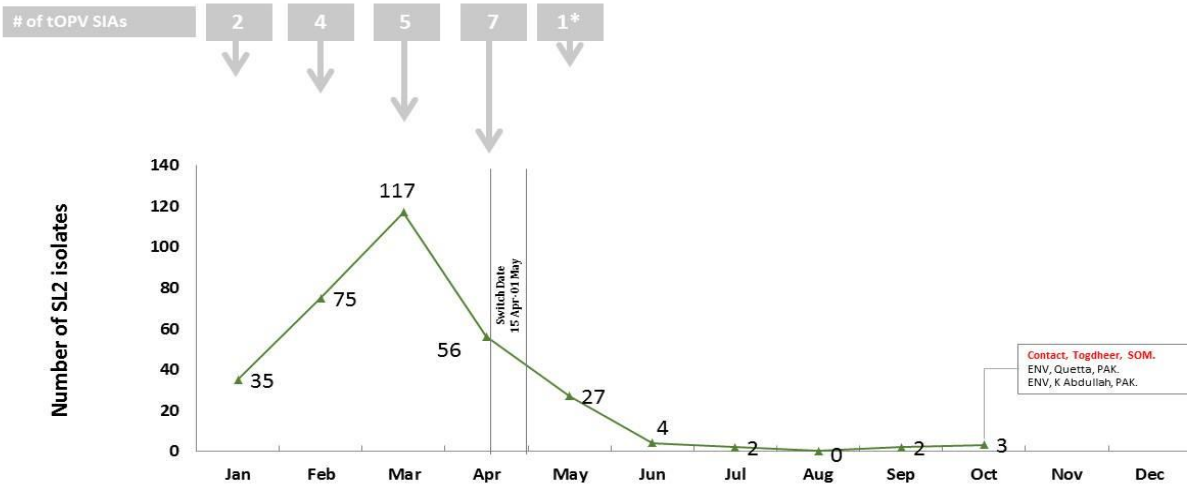
One SL2 has been isolated from an immune-compromised child from EGY in May 2016 but not included in this table

* VDPV2 isolated from index and contact at the same time

** SL2 isolated from index and contact at the same time

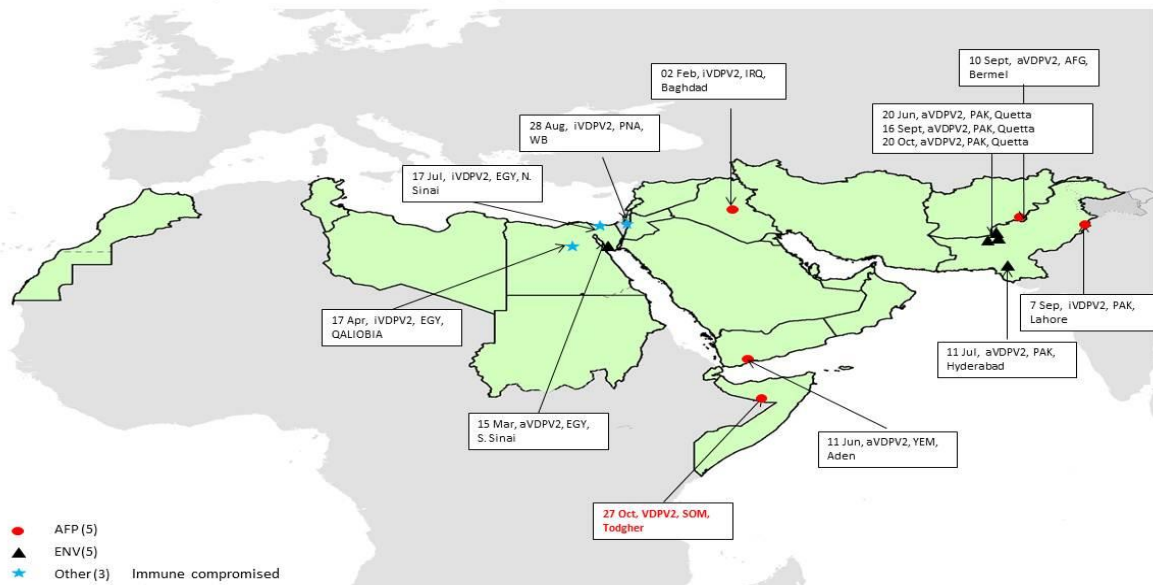


SL2 isolates in EMR countries from Human and ENV 2016



* Focused tOPV campaign in El Tur district (S. Sinai/Egy) as a response to VDPV2 isolation

VDPV2 isolates, EMR countries, 2016



● AFP (5)
 ▲ ENV (5)
 ★ Other (3) Immune compromised